

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Olea europaea*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-CYCLO-OLIVIL	Branches	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
1	1-ACETOXYPINORESINOL	Bark	--	--		
0	1-CAFFEYL-GLUCOSE	Fruit	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	2-HYDROXYCINNAMIC-ACID	Fruit	--	--		
0	3,4,5-TRIMETHOXYBENZOIC-ACID	Fruit	--	--		
3	3,4-DIHYDROXYBENZOIC-ACID	Fruit	--	--		
0	3,4-DIHYDROXYCINNAMIC-ACID	Fruit	--	--		
1	3,4-DIHYDROXYPHENYLETHANOL	Fruit	--	--		
0	3,4-DIHYDROXYPHENYLETHANOL-4-DIGLUCOSIDE	Fruit	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	3,4-DIHYDROXYPHENYLETHANOL-4-MONOGLUCOSIDE	Fruit	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3,4-DIHYDROXYPHENYLETHYLALCOHOL	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	3,4-DIHYDROXYPHENYGLYCOL	Fruit	--	--		
0	3,4-DIMETHOXY-BENZOIC-ACID	Fruit	--	--		
0	4-HYDROXY-3,5-DIMETHOXYBENZOIC-ACID	Fruit	--	--		
0	4-HYDROXY-3,5-DIMETHOXYCINNAMIC-ACID	Fruit	--	--		
0	4-HYDROXY-3-METHOXY-BENZOIC-ACID	Fruit	--	--		
0	4-HYDROXY-3-METHOXY-CINNAMIC-ACID	Fruit	--	--		
0	4-HYDROXY-3-METHOXYPHENYLACETIC-ACID	Fruit	--	--		
0	4-HYDROXY-BENZOIC-ACID	Fruit	--	--		
1	4-HYDROXYCINNAMIC-ACID	Fruit	--	--		
0	4-HYDROXYPHENYLACETIC-ACID	Fruit	--	--		
0	4-HYDROXYPHENYLETHANOL	Fruit	--	--		
32	AESCULETIN	Stem	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
33	AESCULIN	Stem	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
32	ALPHA-TOCOPHEROL	Oil	119	119	-0.5245207178888289	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
101	APIGENIN	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	APIGENIN-7-DI-O-XYLOSIDER	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	APIGENIN-7-GLUCOSIDE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ARABINOSE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ARACHIDIC-ACID	Fruit	300	800	-0.9242748149468218	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ASH	Leaf	61000	61000	-1.0192757962180106	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Twig	85000	85000		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Fruit	64000	294000	6.145904386315856	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
20	BENZOIC-ACID	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	BETA-AMYRIN	Leaf	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
53	BETA-CAROTENE	Fruit	1.8	8.3	-0.13475687867360414	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	BETA-SITOSTEROL-GLUCOSIDE	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
4	BORON	Fruit	1	4	-0.7233703732714263	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron).
102	CAFFEIC-ACID	Fruit	--	--		
28	CALCIUM	Leaf	11800	11800	-0.4535029254940107	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
28	CALCIUM	Fruit	610	2798	-0.24421056645985023	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CARBOHYDRATES	Fruit	13000	60000	-3.8656198240600443	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CARBOHYDRATES	Leaf	735000	735000	0.9793671996226729	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CARBOHYDRATES	Twig	765000	765000		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
43	CATECHIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
22	CATECHOL	Fruit	--	--		
0	CATECHOL-MELANIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
20	CHOLINE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CHRYSOERIOL-7-O-GLUCOSIDE	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
6	CINCHONIDINE	Leaf	--	--		
7	CINCHONINE	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
18	CINNAMIC-ACID	Fruit	--	--		
0	CORNOSIDE	Fruit	--	--		
0	CRATAEGOLIC-ACID	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CYANIDIN-3-GLUCOSIDE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CYANIDIN-3-MONOGLUCOSIDE	Pericarp	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	CYANIDIN-3-RHAMNOSYLGUCOSYLGUCOSIDE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CYANIDIN-3-RUTINOSIDE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	D-1-ACETOXPINORESINOL-4'-BETA-D-GLUCOSIDE	Stem	--	--		
0	D-1-ACETOXPINORESINOL-4'-O-METHYL-ETHER	Stem	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	D-1-ACETOXPINORESINOL-4'-BETA-D-GLUCOSIDE	Stem	--	--		
0	D-1-HYDROXYPINORESINOL	Stem	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	D-1-HYDROXPINORESINOL-4'-O-METHYL-ETHER	Stem	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	D-ACETOXPINORESINOL	Stem	--	--		
0	DEMETHYLOLEOEUROPEIN	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	DIHYDROCINCHONINE	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	DIHYDROXYPHENYLPROPANE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	ELENOLIC-ACID	Leaf	--	--		
1	ELENOLIDE	Fruit	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	ERYTHRODIOL	Pericarp	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	ESCULETIN	Stem	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
29	ESCULIN	Stem	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
8	ESTRONE	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	FAT	Twig	61000	61000		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FAT	Leaf	73000	73000	0.32954701699595224	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FAT	Fruit	127000	583000	3.811655015559721	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FAT	Seed	300000	300000	0.18231593776493718	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	FIBER	Fruit	13000	60000	-0.7707375947396303	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Leaf	177000	177000	0.1912434448814181	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Twig	289000	289000		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	FRUCTOSE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	GALACTOSE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GALACTURONIC-ACID	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
62	GALLIC-ACID	Fruit	--	--		
14	GAMMA-TOCOPHEROL	Oil	13	13	-1.2928436060535222	
7	GLUCOSE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HALLERIDONE	Fruit	--	--		
0	HYDROXYTYROSOL	Fruit	--	--		
6	IRON	Fruit	16	73	-0.237916857716136	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
75	KAEMPFEROL	Stem	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	KILOCALORIES	Fruit	1160	5320	2.520414879610462	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	L-OLIVIL	Resin, Exudate, Sap	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	LIGUSTROLIDE	Fruit	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	LIGUSTROSIDE	Leaf	--	--		
27	LINOLEIC-ACID	Fruit	10500	28000	0.03963765431531594	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
78	LUTEOLIN	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	LUTEOLIN-4'-O-GLUCOSIDE	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	LUTEOLIN-5-O-GLUCOSIDE	Fruit	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
2	LUTEOLIN-7-O-GLUCOSIDE	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LUTEOLINTETRAGLUCOSIDE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
18	MANNITOL	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	MASLINIC-ACID	Hull Husk	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	MASLINIC-ACID	Petiole	--	--		
0	METHYL-DELTA-MASLINEATE	Leaf	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
6	MYRISTIC-ACID	Fruit	300	800	-0.23140306419865772	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	NUZHENIDE	Seed	--	--		
4	O-COUMARIC-ACID	Fruit	--	--		
64	OLEANOLIC-ACID	Petiole	--	--		
64	OLEANOLIC-ACID	Hull Husk	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	OLEIC-ACID	Fruit	122400	326400	2.0349289772973167	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	OLEOSIDE	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	OLEOSIDE-7-METHYL-ESTER	Bark	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	OLEUROPEIC-ACID	Root Bark	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
9	OLEUROPEIN	Leaf	--	--		
9	OLEUROPEIN	Plant	--	--		
0	OLEUROSIDE	Leaf	--	--		
0	OLIVIN	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OLIVIN-4'-DIGLUCOSIDE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
25	P-COUMARIC-ACID	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	P-HYDROXY-BENZOIC-ACID	Fruit	--	--		
0	PAEONIDIN-3-GLUCOSIDE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PAEONIDIN-3-RHAMNOSYLGLUCOSYLGUCOSIDE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	PALMITIC-ACID	Fruit	14250	38000	0.45131132359283294	
24	PECTIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	PHOSPHORUS	Fruit	170	780	-0.7399085002470773	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	PHOSPHORUS	Leaf	900	900	-0.7490946137893574	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	PHYLLOQUINONE	Oil	--	0.8	-0.009552934025986311	
0	PHYTATE	Fruit	20	170	-0.7194248374657674	
14	POTASSIUM	Fruit	550	2523	-1.3619193802913852	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PROTEIN	Fruit	14000	64000	-0.6099277133540758	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Leaf	131000	131000	-0.8065074821542977	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Twig	89000	89000	-1	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
43	PROTOCATECHUIC-ACID	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
176	QUERCETIN	Stem	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	QUERCETIN-3-O-RUTINOSIDE	Pericarp	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
1	QUERCETIN-3-O-RHAMNOSIDE	Pericarp	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	QUINONE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	RHAMNOSE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
87	RUTIN	Pericarp	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
7	SALICYLATES	Fruit	3	13	-0.2994650063622243	
0	SALIDROSIIDE	Seed	--	--		
0	SECO-IRIDOIDS	Leaf	--	--		
1	SODIUM	Fruit	24000	110092	10.255949931659968	
10	SQUALENE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	STEARIC-ACID	Fruit	2100	5600	0.09215947418510027	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	SYRINGIC-ACID	Fruit	--	--		
0	TANNINS	Leaf	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
1	TYROSOL	Fruit	--	--		

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6	UVAOL	Pericarp	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
24	VANILLIC-ACID	Fruit	--	--		
20	VERBASCOSIDE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	WATER	Fruit	782000	782000	0.04967376679366207	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses